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FORM			First Named Inventor:	Yao	Wang, et al	
NO	v 1 0 2005 📽 🕽			Confirmation No.	7237	
ALC.	<i>الإي</i>			Group Art Unit	2143	
THE TRANSPORT OF THE PARTY OF T			Examiner:	England, David E.		
				Customer No.	24227	
Total	Number of Pages in this Submission:			Docket No.	EMC-01-201	
	E	NCL	ost	JRES (check all that apply)	4
	Authorization for the Commissioner to charge Deposit Account No. 05-0889 for fees associated with this transaction (in duplicate)]	Assignment Recordation Cover Sheet Declaration/Power of Attorney		Petition for Revival of an Unintentionally Abandoned Application [37 CRF 1.137(b)] (in duplicate) Status Inquiry
	Amendment/Response After Final Affidavits/Decl.	⊠	Co	wer of Attorney and rrespondence Address lication Form		Form PTOL-85B, Part B -Issue Fee Payment Transmittal," (in duplicate)
	Extension of Time Request for Months			ntement Under 37 CFR 3(b)		Express Abandonment Request
	Information Disclosure Statement		For	rmal Drawings		Terminal Disclaimer
	Request for Continued Examination Transmittal	with		Letter to Official Draftsperson with () sheets of redlined changes to drawings		Power of Attorney Statement Under 37 CFR 3.37(b)
	Response to Missing Parts/Incomplete Application		Copy of PTO 948, "Notice of Draftsperson's Patent Review"		\boxtimes	Certificate of First Class Mailing
	Certified Copy of Priority Document(s)		Pre	eliminary Amendment		Certificate of Express Mail Mailing
	Fee Transmittal (in duplicate)		Additional Enclosures:		⊠	Postcard
	SIGNATUI	RE OF	AP	PLICANT, ATTORNEY O	R AGI	ENT
	November 7, 2008			Robert Re la	1	
Date Robert Kevin Perkins Esq. (Reg. No. 36,634) EMC Corporation Office of the General Counsel Tel: (508) 293-6985 Fax: (508) 293-7189 Hopkinton, MA 01748						
CERTIFICATE OF MAILING OR TRANSMISSION [37 CFR 1.8]						
I here	by certify that this correspondence and	the at	ove	-referenced enclosures are be	ing:	
Deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. Transmitted by facsimile on the date shown below to the Patent and Trademark Office at (703) Manual A Zulaga Date Signature						
Sandra A. Kulaga Typed or printed name of person signing certificate					certificate	

PTO/SB/81 (04-05)

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AND
CORRESPONDENCE ADDRESS
INDICATION FORM

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10/017,304
December 11, 2001
Yao Wang, et al
Network Management for Replication
2143
England, David E.
EMC-01-201

1 nere	by revoke all previou	is powers of attorney given in the	above-ide	ntified applic	ation.
I here	eby appoint:				
\boxtimes	Practitioners associated with the Customer Number:			242	27
	OR		<u>L</u>		
	Practitioner(s) name	d below:			
		Name		Regist	ration Number
	our attorney(s) or agent(s) nark Office connected the	to prosecute the application identified ab rewith.	ove, and to t	ransact all busin	ess in the United States Patent and
Please	e recognize or change	the correspondence address for the	ne above-i	dentified app	lication to:
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	Applicant/Inventor.	f the entire interest. See 37 CED 3	2 71		
I am t □	Applicant/Inventor. Assignee of record of	of the entire interest. See 37 CFR 3)	
	Applicant/Inventor. Assignee of record of	CFR 3.73(b) is enclosed. (Form P	TO/SB/96		
	Applicant/Inventor. Assignee of record of Statement under 37		TO/SB/96	nee of Record	
Signar	Applicant/Inventor. Assignee of record of Statement under 37 ture	SIGNATURE of Applican	TO/SB/96	nee of Record Date	11-7-05
Signar	Applicant/Inventor. Assignee of record of Statement under 37 of ture	SIGNATURE of Applicant M. Gunther	TO/SB/96,	nee of Record Date Telephone	508-293-7255
Signar Name Title a	Applicant/Inventor. Assignee of record of Statement under 37 of ture Tohr and Company Vice	SIGNATURE of Applicant M. Gunther President and Assistant General of the Control	TO/SB/96/ nt or Assign Counsel, E	Date Telephone EMC Corpora	508-293-7255 tion
Signal Name Title a	Applicant/Inventor. Assignee of record of Statement under 37 of ture Tohr and Company Vice	SIGNATURE of Applicant M. Gunther	TO/SB/96/ nt or Assign Counsel, E	Date Telephone EMC Corpora	508-293-7255 tion

This collection of information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

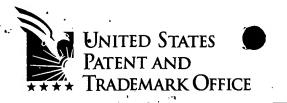
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nder the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: EMC Corporation					
Application No./Patent No. 10/017,304	Filed/Issue Date: December 11, 2001				
Entitled: Network Management for Replication of Data Stored	in a Data Storage Environment				
EMC Corporation a Corpo	oration -				
	of Assignee, e.g., corporation, partnership, university, government				
states that it is:					
1. \(\) the assignee of the entire right, title, and interest; of	OT .				
2. an assignee of less than the entire right, title and into The extent (by percentage) of its ownership interest is	terest.				
in the patent application/patent identified above by virtue of either:	:				
An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel <u>012390</u> , Frame <u>0236</u> , or for which a copy thereof is attached.					
OR B.	cation/patent identified above, to the current assignee				
From: The document was recorded in the United States P Reel, Frame, or for which a copy					
2. From: The document was recorded in the United States P. Reel, Frame, or for which a copy					
3. From: The document was recorded in the United States Parame, or for which a copy is					
Additional documents in the chain of title are listed on a	a supplemental sheet.				
Copies of assignments or other documents in the chain of title are attached. NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]					
The undersigned (whose title is supplied below) is authorized to ac	t on behalf of the assignee.				
John M. Dunther 11-7-05					
Signature	Date				
John M. Gunther	508-293-7255				
Printed or Typed Name	Telephone Number				
Vice President and Assistant General Counsel 26,715					
Title	Registration Number				

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



FEBRUARY 14, 2002



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101929678A*

EMC CORPORATION ROBERT KEVIN PERKINS OFFICE OF THE GENERAL COUNSEL

35 PARKWOOD DR. HOPKINGTON, MA 01748

> UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 12/11/2001

REEL/FRAME: 012390/0236

NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

WANG, YAO

DOC DATE: 12/05/2001

ASSIGNOR:

KENDLER, DAVID

DOC DATE: 12/05/2001

ASSIGNEE:

PATENT NUMBER:

EMC CORPORATION 35 PARKWOOD DR.

HOPKINGTON, MASSACHUSETTS 01748

SERIAL NUMBER: 10017304

FILING DATE: 12/11/2001

ISSUE DATE:

SHARON LATIMER, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

Mailing Label No. ET832199134 US NOV 1 0 2005 12-28-2001 Form PTO-1595 U.S. DEPARTMENT OF COMMERCE ET U.S. Patent and Trademark Office (Rev. 03/01) OMB No. 0651-002 (1995) (1995) Tab settings ⇒ ⇒ ⇒ 101929678 To the Honorable Commissioner of Patents and Trademarks: רושמשם ושנים ביינים ביינים ביינים ו _ attached original documents or copy thereof. 2. Name and address of receiving party(ies) 1. Name of conveying party(ies): Name: EMC Corporation Yao Wang 12.11.01 David Kendler Internal Address: Office of the General Counsel Additional name(s) of conveying party(ies) attached? 🖵 Yes 🔼 No 3. Nature of conveyance: Merger Assignment Street Address: 35 Parkwood Dr ☐ Change of Name Security Agreement Other_ City: Hopkinton Zip:_01748 State: MA Execution Date: December 5, 2001 Additional name(s) & address(es) attached? Yes No 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: 12/11/01 B. Patent No.(s) A. Patent Application No.(s) Additional numbers attached? 📮 Yes 🔽 No 5. Name and address of party to whom correspondence 6. Total number of applications and patents involved: 1 concerning document should be mailed: 7. Total fee (37 CFR 3.41).....\$ 40.00 Name: Robert Kevin Perkins Enclosed Internal Address: EMC Corporation Authorized to be charged to deposit account Office of the General Counsel 8. Deposit account number: Street Address: 35 Parkwood Dr 05-0889 00000234 050889 12/27 2001 GTON11 01 FC 581-(Attach duplicate copy of this page if paying by deposit account) City: Hopkinton State: MA Zip! 01748 DO NOT USE THIS SPACE Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. December 11, 2002 Robert Kevin Perkins Name of Person Signing Date Total number of pages including cover sheet, attachments, and documents:

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PATENT/Joint Assignment
Attorney Docket No.: EMC-01-201
Express Mail Mailing Label No ET 832199134 US

ASSIGNMENT

WHEREAS, we, Yao Wang and David Kendler, have invented an invention comprising and/or embodying certain improvements or discoveries or both as described in an application for Letters Patent of the United States entitled NETWORK MANAGEMENT FOR REPLICATION OF DATA STORED IN A DATA STORAGE ENVIRONMENT, the specification of which:

[X]	is being executed on even date h States Patent Office;	erewith and is about to be filed in the United
[]	was filed on	_ as U.S. Application No;
[]	was patented under U.S. Patent 1	No
		after "ASSIGNEE"), a corporation organized and of Massachusetts and having a usual place of

where AS, EMC Corporation (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the Commonwealth of Massachusetts and having a usual place of business at 35 Parkwood Drive, Hopkinton, Massachusetts 01748 desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey to ASSIGNEE all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution,

-2-

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reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals as set forth below:

Date: 12/01/2001	Cos wens			
. **	Inventor's Signature			
Print full name of first inventor:	Yao Wang			
Residence:	25 Hawthorne Road, Shrewsbury, MA 01545			
Citizenship:	USA			
Mailing Address:	25 Hawthorne Road, Shrewsbury, MA 01545			
STATE/COMMONWEALTH OF Massachuse Hs COUNTY OF Middlesex				
Then personally appeared before me the above-named Yao Wang and acknowledged that he executed the foregoing instrument as his free act and deed this				
	Notary Public			
	Print Name: Notary Public Commonwealth of Massachusetts ires My Commission Expires August 23, 2007			

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PATENT/Joint Assignment Attorney Docket No.: EMC-01-201

-3-

Date: 12/05/2001

Mailing Address:

awid Keudlev
Inventor's Signature

Print full name of second inventor: David Kendler

Residence: 108 A

108 Andrew Street, Newton, MA 02461

Citizenship: USA

108 Andrew Street, Newton, MA 02461

STATE/COMMONWEALTH OF MOGGChusetts
COUNTY OF Middlesox

Notary Public

Print Name:

My Commission e

LINDA M. VALANZOLA
Notary Public
Commonwealth of Massachusetts
piresy Commission Expires
August 23, 2007

G/Kevin Perkins/Prosecution/EMC-01-201 Assignment.doc